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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,682	05/24/2001	Timothy B. Cowles	2000-0058.01	3317
7590 07/19/2004			EXAMINER	
Charles Brantley			TON, DAVID	
	Micron Technology, Inc. 8000 S. Federal Way			PAPER NUMBER
Mail Stop 525			2133	10
Boise, ID 837	16		DATE MAILED: 07/19/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/864,682	COWLES ET AL.	Sp
Office Action Summary	Examiner	Art Unit	-
	David Ton	2133	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of the riod will apply and will expire SIX (6) MC atute, cause the application to become	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2	8 April 2004.		
2a) ☐ This action is FINAL . 2b) ☑ 1	This action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice under	•	• •	
Disposition of Claims			
4) ☐ Claim(s) <u>1-24,40-44 and 50-104</u> is/are pend 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) <u>1-24,40-44,50-55,60-76,80-89 and 6) ☐ Claim(s) <u>56-58,77,90,94 and 96</u> is/are reject 7) ☐ Claim(s) <u>59,78,79,91-93 and 95</u> is/are object to restriction and 12 or 12 or 12 or 12 or 13 o</u>	drawn from consideration. d 97-104 is/are allowed. cted. cted to.		
Application Papers			
9) The specification is objected to by the Exam			
10) The drawing(s) filed on is/are: a) a			
Applicant may not request that any objection to Replacement drawing sheet(s) including the cor	• • • • • • • • • • • • • • • • • • • •		
11) The oath or declaration is objected to by the	·	*	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in priority documents have bee reau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892) Delta Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date	
 Notice of Draitsperson's Patent Drawing Review (PTO-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date <u>6&7</u>. 	. D. T	Informal Patent Application (PTO-152)	

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1. The title of the invention is not descriptive. A new title is required that is clearly

indicative of the invention to which the claims are directed.

2. The abstract is objected because it is over 150 words. A new abstract is

required. The abstract should be in narrative form and generally limited to a single

paragraph on a separate sheet within the range of 50 to 150 words. Correction is

required. See MPEP § 608.01(b).

3. Applicants Amendment A filed on 04/28/04 has been entered.

4. Claims 1-24, 40-44, and 50-104 are presented for examination.

Claim Rejections - 35 USC ' 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 56-58 are rejected under 35 U.S.C. § 102(b) as being clearly anticipated

by Merritt patent no. 5,706,292.

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7. As to claim 56, Merritt teaches the invention as claimed, including a repair system for a memory device comprising at least one redundant plane [col. 3 lines 35-49], said system comprising a first address storage device [banks of fuses, col. 3 lines 35-49] included as part of said memory device, wherein said first address storage device is configured to store an address associated with at least one redundant plane of said memory device [col. 3 lines 35-49].

- 8. As to claim 57, Merritt teaches said first address storage device is configured to store an address associated with a first plurality of redundant planes [col. 3 lines 35-49].
- 9. As to claim 58, Merritt teach a second address storage device [2 banks of fuses, col. 3 lines 35-49].
- 10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 11. Claims 77, 90, 94 and 96 are rejected under 35 U.S.C. § 102(e) as being anticipated by Leung et al. (Leung) patent no. 6,393,504.
- 12. As to claim 77, Leung teaches the invention as claimed, including redundancy circuitry for a memory chip, comprising:

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A redundant memory array on said memory chip and organized into at least one column [Fig. 5a, see col. 11 lines 8-16]; and

At least one register [repair column address register 551 of Fig. 5b] on said memory chip and configured to store a column address of said redundant memory array [see col. 12 lines 32-42].

- 13. As to claim 90, Leung teaches the invention as claimed, including a method of storing data for a memory device comprising: providing a device [register 550 of Fig. 5b] on a semiconductor die, wherein said die incorporates said memory device; and storing in said device data relating to a plurality of memory cell data [storing the address of defective cell, col. 12 line 17-31].
- 14. As to claim 94 and 96, Leung teaches storing column address of a defective cell [col. 12 lines 17-42].

Allowable Subject Matter

- 15. Claims 1-24, 40-44, 50-55, 60-76, 80-89 and 97-104 are allowed.
- 16. Claims 59, 78-79, 91-93 and 95 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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17. The prior art of record and not relied upon is considered pertinent to applicant's

disclosure.

18. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David Ton, whose telephone number is (703) 306-3043.

The examiner can normally be reached on Monday through Thursday from 6:30 AM to

4:00 PM and alternate Friday from 6:30 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Albert DeCady, can be reached at (703) 305-9595. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

DT

July 09, 2004

Davidon

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DAVID TON PRIMARY EXAMINER